## Physics A410: Thermal Physics

## Problem Set 7

## Assigned 2004 March 9 Due 2004 March 16

Show your work on all problems! Be sure to give credit to any collaborators, or outside sources used in solving the problems.

- 1 Schroeder 3.19
- 2 Schroeder 3.25

Note: this is an invovled problem. Make sure you get an early start, and take it one part at a time. You'll want to keep your calculus book handy for the perturbative expansions in part (f).

- 3 Schroeder 3.28
- 4 Schroeder 3.32